

# German Castellanos-Dominguez

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

191  
papers

1,206  
citations

16  
h-index

27  
g-index

213  
ext. papers

1,426  
ext. citations

2  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
191	Image-Based Learning Using Gradient Class Activation Maps for Enhanced Physiological Interpretability of Motor Imagery Skills. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1695	2.6	2
190	Deep Neural Regression Prediction of Motor Imagery Skills Using EEG Functional Connectivity Indicators. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
189	Short-Time/-Angle Spectral Analysis for Vibration Monitoring of Bearing Failures under Variable Speed. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3369	2.6	3
188	Single-Trial Kernel-Based Functional Connectivity for Enhanced Feature Extraction in Motor-Related Tasks. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
187	Adaptive classification using incremental learning for seismic-volcanic signals with concept drift. <i>Journal of Volcanology and Geothermal Research</i> , <b>2021</b> , 413, 107211	2.8	1
186	An Enhanced Joint Hilbert Embedding-Based Metric to Support Mocap Data Classification with Preserved Interpretability. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
185	Spatial interpretability of time-frequency relevance optimized in motor imagery discrimination using Deep&Wide networks. <i>Biomedical Signal Processing and Control</i> , <b>2021</b> , 68, 102626	4.9	1
184	Regression Networks for Neurophysiological Indicator Evaluation in Practicing Motor Imagery Tasks. <i>Brain Sciences</i> , <b>2020</b> , 10,	3.4	3
183	Individual Detection of Citrus and Avocado Trees Using Extended Maxima Transform Summation on Digital Surface Models. <i>Remote Sensing</i> , <b>2020</b> , 12, 1633	5	3
182	Dynamic Modeling of Common Brain Neural Activity in Motor Imagery Tasks. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 714	5.1	2
181	A time-series prediction framework using sequential learning algorithms and dimensionality reduction within a sparsification approach. <i>Pattern Recognition Letters</i> , <b>2020</b> , 129, 287-292	4.7	1
180	CNN-based framework using spatial dropping for enhanced interpretation of neural activity in motor imagery classification. <i>Brain Informatics</i> , <b>2020</b> , 7, 8	5.9	6
179	Entropy-Based Estimation of Event-Related De/Synchronization in Motor Imagery Using Vector-Quantized Patterns. <i>Entropy</i> , <b>2020</b> , 22,	2.8	7
178	Influence of Patient-Specific Head Modeling on EEG Source Imaging. <i>Computational and Mathematical Methods in Medicine</i> , <b>2020</b> , 2020, 5076865	2.8	3
177	Enhanced Data Covariance Estimation Using Weighted Combination of Multiple Gaussian Kernels for Improved M/EEG Source Localization. <i>International Journal of Neural Systems</i> , <b>2019</b> , 29, 1950001	6.2	5
176	Supervised piecewise network connectivity analysis for enhanced confidence of auditory oddball tasks. <i>Biomedical Signal Processing and Control</i> , <b>2019</b> , 52, 341-346	4.9	4
175	Emulating the perceptual capabilities of a human evaluator to map the GRB scale for the assessment of voice disorders. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 82, 236-251	7.2	4

174	Similarity preservation in dimensionality reduction using a kernel-based cost function. <i>Pattern Recognition Letters</i> , <b>2019</b> , 125, 318-324	4.7	2
173	Forward Modelling Complexity Influence in EEG Source Localization Using Real EEG Data. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 829-836	0.9	
172	Linear Projection Learned from Hybrid CKA for Enhancing Distance-Based Classifiers. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 100-108	0.9	
171	Adaptive Bayesian label fusion using kernel-based similarity metrics in hippocampus segmentation. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 014003	2.6	2
170	Relevance of Common Spatial Patterns Ranked by Kernel PCA in Motor Imagery Classification. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 13-20	0.9	1
169	Subject-Oriented Dynamic Characterization of Motor Imagery Tasks Using Complexity Analysis. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 21-28	0.9	
168	A Finite-Difference Solution for the EEG Forward Problem in Inhomogeneous Anisotropic Media. <i>Brain Topography</i> , <b>2019</b> , 32, 229-239	4.3	14
167	Fault Diagnostic of Machines Under Variable Speed Operating Conditions Using Order Tracking and Novelty Detection. <i>Applied Condition Monitoring</i> , <b>2018</b> , 179-189	0.2	
166	Bearing Fault Identification Based on Blind Extraction of Cyclostationary Signals Using Order Tracking. <i>Applied Condition Monitoring</i> , <b>2018</b> , 191-201	0.2	
165	Assessment of Source Connectivity for Emotional States Discrimination. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 63-73	0.9	1
164	EEG Based Brain Mapping by Using Frequency-Spatio-Temporal Constraints. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 13-21	0.9	
163	Detecting EEG Dynamic Changes Using Supervised Temporal Patterns. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 351-358	0.9	
162	GMM Background Modeling Using Divergence-Based Weight Updating. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 282-290	0.9	4
161	Feedback on the Surveillance 8 challenge: Vibration-based diagnosis of a Safran aircraft engine. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 97, 112-144	7.8	53
160	Iterative joint dynamic brain mapping and neural activity modeling from electroencephalographic signals. <i>IFMBE Proceedings</i> , <b>2017</b> , 433-436	0.2	
159	EEG Source Imaging Based on Dynamic Sparse Coding as ADHD Biomarker. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 416-425	0.9	2
158	Relevant Kinematic Feature Selection to Support Human Action Recognition in MoCap Data. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 501-509	0.9	
157	Kernel-based dimensionality reduction using Renyi's Entropy measures of similarity. <i>Neurocomputing</i> , <b>2017</b> , 222, 36-46	5.4	12

156	Improved Localization of Seizure Onset Zones Using Spatiotemporal Constraints and Time-Varying Source Connectivity. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 156	5.1	16
155	Kernel-Based Relevance Analysis with Enhanced Interpretability for Detection of Brain Activity Patterns. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 550	5.1	11
154	Non-linear Covariance Estimation for Reconstructing Neural Activity with MEG/EEG Data. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 334-344	0.9	1
153	Influence of Anisotropic Blood Vessels Modeling on EEG Source Localization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 384-393	0.9	
152	Detection of EEG Dynamic Changes Due to Stimulus-Related Activity in Motor Imagery Recordings. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 435-443	0.9	
151	Blind Extraction of Instantaneous Frequency for Order Tracking in Rotating Machines Under Non-stationary Operating Conditions. <i>Applied Condition Monitoring</i> , <b>2016</b> , 99-110	0.2	2
150	Assessment of the Relation Between Low-Frequency Features and Velum Opening by Using Real Articulatory Data. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 131-139	0.9	
149	Order Tracking by Square-Root Cubature Kalman Filter with Constraints. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 104-114	0.9	1
148	Background modeling using Object-based Selective Updating and Correntropy adaptation. <i>Image and Vision Computing</i> , <b>2016</b> , 45, 22-36	3.7	6
147	Identification of Relevant Inter-channel EEG Connectivity Patterns: A Kernel-Based Supervised Approach. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 14-23	0.9	4
146	Centered Kernel Alignment Enhancing Neural Network Pretraining for MRI-Based Dementia Diagnosis. <i>Computational and Mathematical Methods in Medicine</i> , <b>2016</b> , 2016, 9523849	2.8	12
145	Non-linear Parameter Estimates from Non-stationary MEG Data. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 366	5.1	7
144	Machine Fault Detection Based on Filter Bank Similarity Features Using Acoustic and Vibration Analysis. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-14	1.1	6
143	Emotion Discrimination Using Spatially Compact Regions of Interest Extracted from Imaging EEG Activity. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 55	3.5	19
142	Reconstruction of Neural Activity from EEG Data Using Dynamic Spatiotemporal Constraints. <i>International Journal of Neural Systems</i> , <b>2016</b> , 26, 1650026	6.2	19
141	Training subset selection in Hourly Ontario Energy Price forecasting using time series clustering-based stratification. <i>Neurocomputing</i> , <b>2015</b> , 156, 268-279	5.4	6
140	Spatial-Dependent Similarity Metric Supporting Multi-atlas MRI Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 300-308	0.9	
139	Kernel-Based Feature Relevance Analysis for ECG Beat Classification. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 291-299	0.9	

138	Single-Channel Separation Between Stationary and Non-stationary Signals Using Relevant Information. <i>Lecture Notes in Computer Science, 2015, 452-459</i>	0.9	
137	Feature extraction by statistical contact potentials and wavelet transform for predicting subcellular localizations in gram negative bacterial proteins. <i>Journal of Theoretical Biology, 2015, 364, 121-30</i>	2.3	2
136	Effectiveness of morphological and spectral heartbeat characterization on arrhythmia clustering for Holter recordings <b>2015,</b>		1
135	Kernel Centered Alignment Supervised Metric for Multi-Atlas Segmentation. <i>Lecture Notes in Computer Science, 2015, 658-667</i>	0.9	1
134	Solving the EEG inverse problem based on space-time-frequency structured sparsity constraints. <i>NeuroImage, 2015, 118, 598-612</i>	7.9	43
133	Time-series discrimination using feature relevance analysis in motor imagery classification. <i>Neurocomputing, 2015, 151, 122-129</i>	5.4	32
132	Weighted Filtering for Neural Activity Reconstruction Under Time Varying Constraints. <i>Lecture Notes in Computer Science, 2015, 377-387</i>	0.9	
131	Supervised Brain Tissue Segmentation Using a Spatially Enhanced Similarity Metric. <i>Lecture Notes in Computer Science, 2015, 398-407</i>	0.9	1
130	Neural Activity Estimation from EEG Using an Iterative Dynamic Inverse Problem Solution. <i>Lecture Notes in Computer Science, 2015, 388-397</i>	0.9	3
129	iLU Preconditioning of the Anisotropic-Finite-Difference Based Solution for the EEG Forward Problem. <i>Lecture Notes in Computer Science, 2015, 408-418</i>	0.9	5
128	EEG Rhythm Extraction Based on Relevance Analysis and Customized Wavelet Transform. <i>Lecture Notes in Computer Science, 2015, 419-428</i>	0.9	3
127	Estimation of M/EEG Non-stationary Brain Activity Using Spatio-temporal Sparse Constraints. <i>Lecture Notes in Computer Science, 2015, 429-438</i>	0.9	3
126	Connectivity Analysis of Motor Imagery Paradigm Using Short-Time Features and Kernel Similarities. <i>Lecture Notes in Computer Science, 2015, 439-448</i>	0.9	1
125	Kernel-based relevant feature extraction to support Motor Imagery classification <b>2015,</b>		1
124	Video Segmentation Framework Based on Multi-kernel Representations and Feature Relevance Analysis for Object Classification. <i>Advances in Intelligent Systems and Computing, 2015, 273-283</i>	0.4	5
123	Time-Series Prediction Based on Kernel Adaptive Filtering with Cyclostationary Codebooks. <i>Lecture Notes in Computer Science, 2015, 354-361</i>	0.9	
122	Information-Based Cost Function for a Bayesian MRI Segmentation Framework. <i>Lecture Notes in Computer Science, 2015, 548-556</i>	0.9	
121	Magnetic Resonance Image Selection for Multi-Atlas Segmentation Using Mixture Models. <i>Lecture Notes in Computer Science, 2015, 391-399</i>	0.9	

120	Estimation of dynamic neural activity including informative priors into a Kalman filter based approach <b>2014</b> ,		2
119	Reviewing, selecting and evaluating features in distinguishing fine changes of global texture. <i>Pattern Analysis and Applications</i> , <b>2014</b> , 17, 1-15	2.3	8
118	Building a Cepstrum-HMM kernel for Apnea identification. <i>Neurocomputing</i> , <b>2014</b> , 132, 159-165	5.4	18
117	Non uniform Embedding based on Relevance Analysis with reduced computational complexity: Application to the detection of pathologies from biosignal recordings. <i>Neurocomputing</i> , <b>2014</b> , 132, 148-158	5.4	9
116	XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013. <i>IFMBE Proceedings</i> , <b>2014</b> ,	0.2	4
115	Identification and monitoring of brain activity based on stochastic relevance analysis of short-time EEG rhythms. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 123	4.1	16
114	Feature selection for discrimination of fractionation levels in atrial electrograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 1595-8	0.9	1
113	Entropy-based multichannel measure of stationarity for characterization of motor imagery patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 1469-72	0.9	1
112	Multiobjective optimization-based design of wearable electrocardiogram monitoring systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 3029-32	0.9	2
111	A latent force model for describing electric propagation in deep brain stimulation: a simulation study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2617-20	0.9	4
110	Very long-term ECG monitoring patch with improved functionality and wearability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 5964-7	0.9	1
109	Motor imagery classification using feature relevance analysis: An Emotiv-based BCI system <b>2014</b> ,		11
108	Optimization of Cost Sensitive Models to Improve Prediction of Molecular Functions. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 207-222	0.3	1
107	Tensor-product kernel-based representation encoding joint MRI view similarity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 3897-900	0.9	1
106	Correntropy-Based Adaptive Learning to Support Video Surveillance Systems <b>2014</b> ,		1
105	Kernel-based atlas image selection for brain tissue segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2895-8	0.9	
104	Fractionated electrograms and rotors detection in chronic atrial fibrillation using model-based clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 1579-82	0.9	1
103	Identification of brain networks using time-varying spatial constraints of neural activity reconstruction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2789-92	0.9	

102	Influence of anisotropic white matter modeling on EEG source localization. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4920-3</i>	0.9	2
101	Three-layer-isotropic skull conductivity representation in the EEG forward problem using spherical head models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4904-7</i>	0.9	
100	A Kernel-Based Representation to Support 3D MRI Unsupervised Clustering <b>2014,</b>		4
99	Quadratic Problem Formulation with Linear Constraints for Normalized Cut Clustering. <i>Lecture Notes in Computer Science, 2014, 408-415</i>	0.9	3
98	Nonlinear model for condition monitoring of non-stationary vibration signals in ship driveline application. <i>Mechanical Systems and Signal Processing, 2014, 44, 134-148</i>	7.8	17
97	Functional Protein Prediction Using HMM Based Feature Representation and Relevance Analysis. <i>Advances in Intelligent Systems and Computing, 2014, 71-76</i>	0.4	
96	EEG Rhythm Analysis Using Stochastic Relevance. <i>IFMBE Proceedings, 2014, 658-661</i>	0.2	3
95	Neural Decoding Using Kernel-Based Functional Representation of ECoG Recordings. <i>Lecture Notes in Computer Science, 2014, 247-254</i>	0.9	1
94	Unsupervised Kernel Function Building Using Maximization of Information Potential Variability. <i>Lecture Notes in Computer Science, 2014, 335-342</i>	0.9	15
93	Estimation of Cyclostationary Codebooks for Kernel Adaptive Filtering. <i>Lecture Notes in Computer Science, 2014, 351-358</i>	0.9	
92	Stationary Signal Separation Using Multichannel Local Segmentation. <i>Lecture Notes in Computer Science, 2014, 183-190</i>	0.9	
91	Spectral Correlation Measure for Selecting Intrinsic Mode Functions. <i>Lecture Notes in Computer Science, 2014, 231-238</i>	0.9	
90	Nonlinear Dynamics for Hypernasality Detection in Spanish Vowels and Words. <i>Cognitive Computation, 2013, 5, 448-457</i>	4.4	16
89	Predictability of gene ontology slim-terms from primary structure information in Embryophyta plant proteins. <i>BMC Bioinformatics, 2013, 14, 68</i>	3.6	12
88	Video analysis based on Multi-Kernel Representation with automatic parameter choice. <i>Neurocomputing, 2013, 100, 117-126</i>	5.4	2
87	Evaluation of Region-of-Interest coders using perceptual image quality assessments. <i>Journal of Visual Communication and Image Representation, 2013, 24, 1316-1327</i>	2.7	5
86	A Weighted Dynamic Inverse Problem for electroencephalographic current density reconstruction <b>2013,</b>		3
85	Selection of time-variant features for earthquake classification at the Nevado-del-Ruiz volcano. <i>Computers and Geosciences, 2013, 51, 293-304</i>	4.5	15

84	Estimation of relevant time-frequency features using Kendall coefficient for articulator position inference. <i>Speech Communication</i> , <b>2013</b> , 55, 99-110	2.8	5
83	Kernel spectral clustering for dynamic data using multiple kernel learning <b>2013</b> ,		5
82	Wearable and superhydrophobic hardware for ambulatory biopotential acquisition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1847-50	0.9	1
81	Classification of premature ventricular contraction based on Discrete Wavelet Transform for real time applications <b>2013</b> ,		3
80	Feature relevance analysis supporting automatic motor imagery discrimination in EEG based BCI systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 7068-71	0.9	6
79	Contact potentials via wavelet transform for prediction of subcellular localizations in gram negative bacterial proteins. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> ,	0.9	
78	A comparison of multi-label techniques based on problem transformation for protein functional prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 2688-91	0.9	2
77	Stochastic relevance analysis of epileptic EEG signals for channel selection and classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 2104-7	0.9	
76	Bayesian estimation of neural activity for non stationary sources using time frequency based priors <b>2013</b> ,		1
75	Novel heuristic search for ventricular arrhythmia detection using normalized cut clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 7076-9	0.9	4
74	Local binary fitting energy solution by graph cuts for MRI segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5131-4	0.9	5
73	Rainfall Forecasting Based on Ensemble Empirical Mode Decomposition and Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 471-480	0.9	6
72	NonReferenced Quality Assessment of Image Processing Methods in Infrared Non-destructive Testing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 121-130	0.9	1
71	Phonocardiography Signal Segmentation for Telemedicine Environments. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 124-134	0.9	
70	Detection of obstructive sleep apnoea using dynamic filter-banked features. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9118-9128	7.8	9
69	Locally linear embedding based on correntropy measure for visualization and classification. <i>Neurocomputing</i> , <b>2012</b> , 80, 19-30	5.4	16
68	Training using short-time features for OSA discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 9-12	0.9	
67	Infrared thermal image segmentation using expectation-maximization-based clustering <b>2012</b> ,		6



66	A strategy for classifying imbalanced data sets based on particle swarm optimization <b>2012,</b>		2
65	Extraction of stationary components in biosignal discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1-4</i>	0.9	1
64	Relevance and redundancy analysis of PCG signals in the detection of heart murmurs by ANOVA <b>2012,</b>		1
63	Kernel based hand gesture recognition using kinect sensor <b>2012,</b>		11
62	Feature Selection by Relevance Analysis for Abandoned Object Classification. <i>Lecture Notes in Computer Science, 2012, 837-844</i>	0.9	2
61	Unsupervised feature relevance analysis applied to improve ECG heartbeat clustering. <i>Computer Methods and Programs in Biomedicine, 2012, 108, 250-61</i>	6.9	26
60	Improving the prediction of sub-cellular locations of proteins with a particle swarm optimization-based boosting strategy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6313-6</i>	0.9	0
59	Image Segmentation Based on Multi-Kernel Learning and Feature Relevance Analysis. <i>Lecture Notes in Computer Science, 2012, 501-510</i>	0.9	11
58	Time-frequency based feature selection for discrimination of non-stationary biosignals. <i>Eurasip Journal on Advances in Signal Processing, 2012, 2012,</i>	1.9	8
57	Influence of delay time on regularity estimation for voice pathology detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4217-20</i>	0.9	4
56	Biomedical data analysis by supervised manifold learning. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 41-4</i>	0.9	1
55	Effect of latency on clustering of P300 recordings for ADHD discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5202-5</i>	0.9	
54	An adaptation of Pfam profiles to predict protein sub-cellular localization in Gram positive bacteria. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5554-7</i>	0.9	3
53	Improvement of ECG signal quality measurement using correlation and diversity-based approaches. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4295-8</i>	0.9	9
52	Multi-resolution analysis for region of interest extraction in thermographic nondestructive evaluation <b>2012,</b>		3
51	Quantifying image distortion based on Gabor filter bank and multiple regression analysis <b>2012,</b>		2
50	Extraction of Stationary Spectral Components Using Stochastic Variability. <i>Lecture Notes in Computer Science, 2012, 765-772</i>	0.9	
49	Finite Rank Series Modeling for Discrimination of Non-stationary Signals. <i>Lecture Notes in Computer Science, 2012, 691-698</i>	0.9	1

48	Discrimination of Epileptic Events Using EEG Rhythm Decomposition. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 436-444	0.9	2
47	Selection of Nonstationary Dynamic Features for Obstructive Sleep Apnoea Detection in Children. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2011</b> , 2011,	1.9	11
46	Relevance Analysis of Stochastic Biosignals for Identification of Pathologies. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2011</b> , 2011,	1.9	4
45	Global and local choice of the number of nearest neighbors in locally linear embedding. <i>Pattern Recognition Letters</i> , <b>2011</b> , 32, 2171-2177	4.7	28
44	Automatic detection of pathological voices using complexity measures, noise parameters, and mel-cepstral coefficients. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 370-9	5	86
43	Current density reconstruction from EEG based on a time varying nonlinear physiological model <b>2011</b> ,		3
42	Comparative analysis of time frequency representations for discrimination of epileptic activity in EEG signals <b>2011</b> ,		1
41	Complexity-based analysis for the detection of heart murmurs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 2728-31	0.9	4
40	Sleep apnoea detection in children using PPG envelope-based dynamic features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 1483-6	0.9	0
39	Prediction of protein subcellular localization based on variable-length motifs detection and dissimilarity based classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 215-9	0.9	4
38	EEG seizure identification by using optimized wavelet decomposition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 2675-8	0.9	1
37	Novel signal-dependent filter bank method for identification of multiple basal ganglia nuclei in Parkinsonian patients. <i>Journal of Neural Engineering</i> , <b>2011</b> , 8, 036026	5	7
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